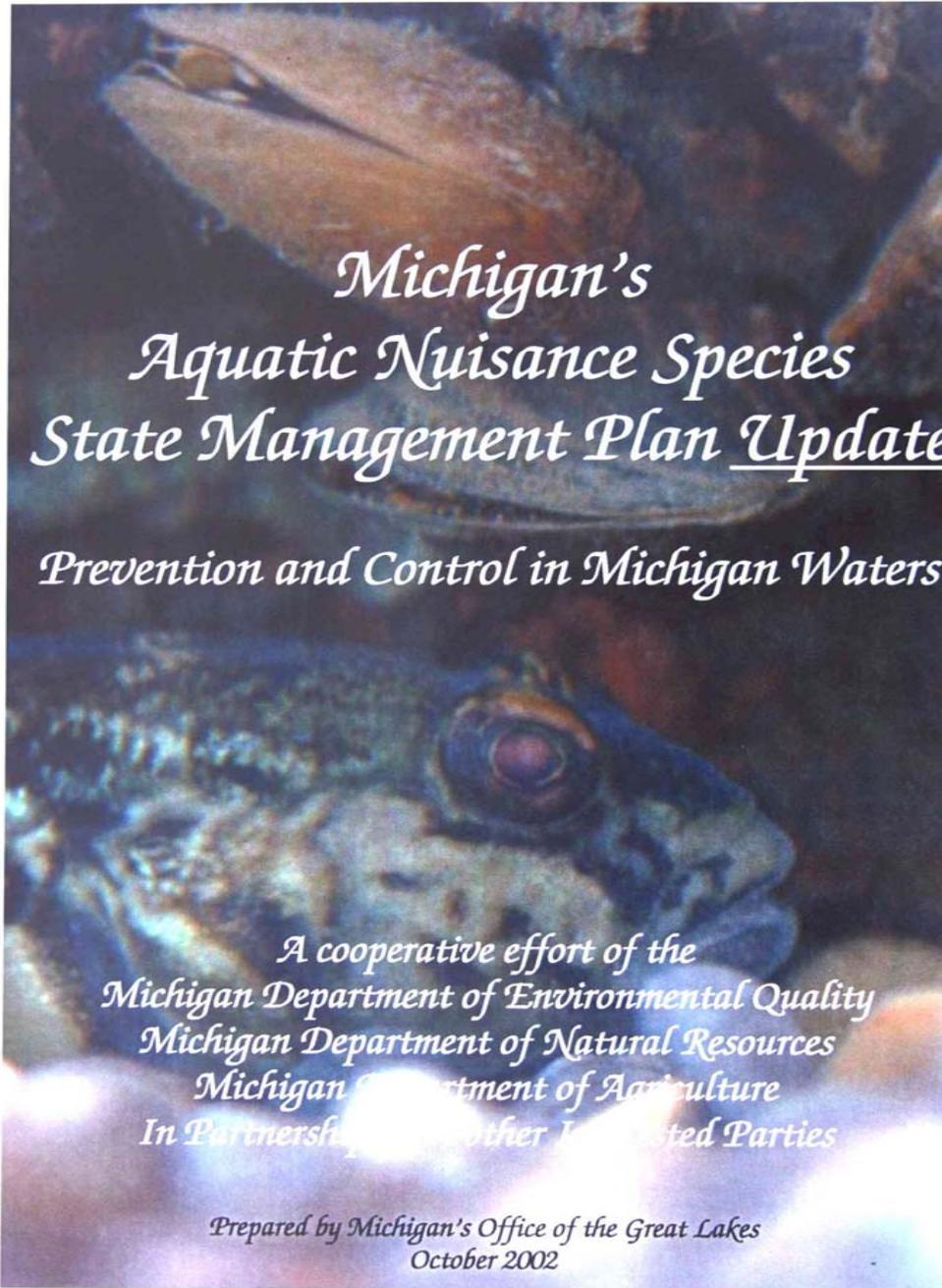


A Management Plan for Aquatic Nuisance Species In Michigan

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Office of the Great Lakes
Michigan Department of Environmental Quality
Noxious Plant Workshop
June 7, 2005



*Michigan's
Aquatic Nuisance Species
State Management Plan Update*

Prevention and Control in Michigan Waters

*A cooperative effort of the
Michigan Department of Environmental Quality
Michigan Department of Natural Resources
Michigan Department of Agriculture
In Partnership with Other Interested Parties*

*Prepared by Michigan's Office of the Great Lakes
October 2002*

Michigan's battle with ANS

- Michigan's waters are under assault from aquatic nuisance species already here and are threatened by those yet to come.
- Over 162 aquatic nuisance species are documented in Great Lakes waters
- Numerous pathways of introduction continue to add to the number of areas infested
- New invaders like hydrilla and Asian carp are nearing Great Lakes waters

State Management Plans

- Nonindigenous Aquatic Nuisance Prevention and Control Act (NANPCA of 1990) later amended to the National Invasive Species Act of 1996 (NISA) provided provisions for state and interstate management plans.
- ANS Task Force approval required to obtain funding under Section 1204 of the Aquatic Nuisance Species Prevention and Control Act.
- ANS Task Force encourages state and interstate plan development describing detection and monitoring efforts of aquatic nuisance species, prevention efforts to stop their introduction and spread, and control efforts to reduce their impacts.
- 16 approved plans

Michigan's ANS State Management Plan

- Second state management plan to be developed and approved in 1996 - *Nonindigenous Aquatic Nuisance Species State Management Plan: A Strategy to Confront Their Spread in Michigan*
- *Michigan's Aquatic Nuisance Species State Management Plan Update - Prevention and Control in Michigan Waters, 2002*
- Undergoing next update in 2005

The Plan - Components

- Goals, Recommended Actions, and Implementation Table
 - Policy and Legislation
 - Information and Education
 - Research and Monitoring

Legislative and Policy Goal

- Coordinate necessary policies and enact necessary legislation to reduce economic and environmental impacts

Information and Education Goals

- The prevention of unintentional introduction and dispersal of aquatic nuisance species into, within and from Great Lakes waters through implementation of I/E activities.
- Statewide coordination of information dissemination regarding aquatic nuisance species programs involving prevention, control, monitoring, research, education, policy and other related activities.
- The active involvement of Great Lakes regional policymakers and user groups in the promotion of aquatic nuisance prevention and control programs.
- Provide adequate resources to implement Michigan's Information/Education Strategy for Aquatic Nuisance Prevention and Control.

Research and Monitoring Goals

- Provide high quality information to policy decisions, legislation, educational efforts, and regulatory work regarding aquatic nuisance species prevention, control, and effects in Michigan
- Provide resources and collaborative networks for research and monitoring activities regarding aquatic nuisance species in Michigan

Recommended Actions

The recommended implementation actions include:

- Coordination of policies and enactment of legislation that will reduce the economic and environmental impacts of ANS in Michigan;
- Development of information and education materials and activities addressing ANS prevention, control, monitoring, research and policy making;
- Establishment of a network of collaborative entities for research and monitoring of ANS in Michigan with the goal of providing high quality information to legislators, educators and policy makers.

State Participation and Implementation

- Aquatic Nuisance Species Council
- Environmental Quality
 - Office of the Great Lakes
 - Water Bureau
- Natural Resources
 - Fisheries
 - Wildlife Division
- Agriculture
 - Invasive Plant and Aquaculture Regulation
- Transportation

Office of the Great Lakes Summary of ANS Activities

Selected state activities that implement Michigan's ANS Management Plan include:

- Coordination of an AIS Awareness Week in June
- Michigan ANS and Boater Survey
- Information and Education small grants program
- Operation of the ANS Council
- Implementation of the ballast water reporting program
- Research on ballast water treatment
- Participation on the Great Lakes Panel on ANS
- Development of a rapid response plan for Michigan and the Great Lakes region

Aquatic Invasive Species Awareness Week



Saturday June 4 – Sunday, June 12, 2005

Governor Jennifer Granholm has proclaimed June 4 - June 12, 2005, as Aquatic Invasive Species Awareness Week in Michigan to encourage people at a local level to find ways to prevent the spread and introduction of aquatic invasive species in our waters.

Statement of Purpose: To raise awareness about prevention and control of aquatic invasive species in Michigan and Great Lakes waters such as the zebra mussel, Eurasian water milfoil, purple loosestrife, round goby, and ruffe.

Michigan Aquatic Nuisance Species Council

The purpose of the Michigan Aquatic Nuisance Species Council is to advise the Office of the Great Lakes and the Departments of Environmental Quality, Natural Resources, Agriculture and Transportation on implementation of the updated state management plan for aquatic nuisance species

Hydrilla Case Study Development

- Meeting in early 2004 to define problem
- Appointment of Hydrilla Task Force by Michigan's ANS Council
- Rapid Response Committee and Outreach Committee set up by Task Force
- Development of early detection program by Outreach Committee
- Rapid Response planning document produced by Rapid Response Committee

Join the Hydrilla Hunt!

This plant threatens to invade
and choke Michigan waterways!

If *Hydrilla verticillata* comes to Michigan it could overwhelm waterways here as it has in other states after only a few growing seasons.

We hope to stop it as soon as it is discovered but scientists cannot check all the places it might take hold. You can help!

Please look for this plant in local lakes, ponds and streams during the summer and fall. Is hydrilla already in your favorite waterway? If you find hydrilla, please send a small sample (carefully following the instructions on the back) to Michigan Sea Grant's laboratory and help us protect our waterways from this new invader.

You will be contacted only if lab analysis confirms you have found hydrilla.
For more information, visit www.miseagrant.umich.edu/ans.



Dr. Nancy Chalmers of MSU

Hydrilla Hunt I.D. Card

Name _____

Phone number during business hours _____

email _____

I used the identification drawings on this I.D. card to compare the

plants I found in _____ lake
 stream
 pond

in _____ county. The nearest crossroads

are _____

and _____

MICHIGAN STATE
UNIVERSITY

MSU is an affirmative-action,
equal-opportunity institution.



Michigan Lake & Stream
Association, Inc.

Have you found *Hydrilla verticillata*?

If you think so,
please follow these steps carefully.

- Step 1. Collect 5 or 6 inches of the plant.
- Step 2. Compare your plant's features with these drawings to rule out the most often confused native plant, Elodea.
- Step 3. Complete the I.D. card.
- Step 4. Shake the water off your specimen. Use 2 tablespoons of rubbing alcohol to moisten a paper towel. Place both in a sealable plastic bag.
- Step 5. Mail the I.D. card and sealed sample bag to the following address:
Hydrilla Hunt, Michigan Sea Grant, Michigan State University,
334 Natural Resources, East Lansing, MI 48824.

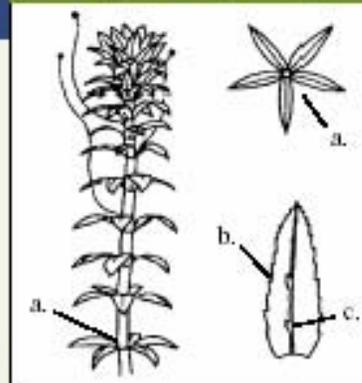
You will be contacted within a few weeks, *if lab analysis confirms it is hydrilla*. Thank you for helping protect Michigan's waterways.



Hydrilla

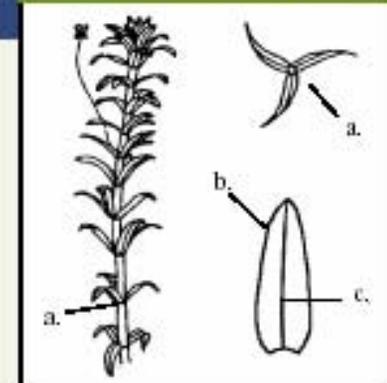
Hydrilla or Elodea? Read the Leaves to Tell the Difference

Hydrilla (Exotic)



- 4 or 5 leaves at each node
- Leaves have visible teeth
- Leaf vein has small spines

Elodea (Native)



- Only 3 leaves at each node
- Leaf edges appear smooth
- Leaf vein is smooth underneath

Other Efforts

- AIS GIS Mapping in Michigan
- Eurasian Watermilfoil biocontrol demonstrations
- Purple loosestrife locator survey
- Angler Monitoring Network

Contact Information

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